

Claims

What is claimed is:

1. An electrical connector assembly, comprising:

a first electrical connector including a door for protecting contacts of the first electrical connector from environmental conditions when the first electrical connector is in an unmated condition; and

a second electrical connector including an integral elongated strap and an integral clasp positioned approximate an outer shell of the second electrical connector, wherein the strap is shaped to contact the door of the first electrical connector and interlock with the clasp to interlock the first and second electrical connectors when the first and second electrical connectors are mated.

2. The assembly of claim 1, further including:

integral flexible flaps positioned along the outer shell of the second electrical connector, wherein the integral flexible flaps seal the first and second electrical connectors when the first and second electrical connectors are mated.

3. The assembly of claim 1, wherein the clasp includes a post which is received in an aperture formed in the strap to interlock the first and second electrical connectors.

4. The assembly of claim 1, wherein the first electrical connector is a female connector and the second electrical connector is a male connector.

5. The assembly of claim 1, wherein the first electrical connector is a male connector and the second electrical connector is a female connector.

6. The assembly of claim 1, wherein the door includes a latching tab extending from a lower surface and the second electrical connector includes a key extending from the outer

shell, and wherein the latching tab engages the key when the first and second electrical connectors are in a mated condition.

7. The assembly of claim 1, wherein the first and second electrical connectors injection molded from a plastic material.

8. An electrical connector assembly, comprising:

a first electrical connector including a door for protecting contacts of the first electrical connector from environmental conditions when the first electrical connector is in an unmated condition;

a second electrical connector including an integral elongated strap and an integral clasp positioned approximate an outer shell of the second electrical connector, wherein the strap is shaped to contact the door of the first electrical connector and interlock with the clasp to interlock the first and second electrical connectors when the first and second electrical connectors are mated; and

integral flexible flaps positioned along the outer shell of the second electrical connector, wherein the integral flexible flaps seal the first and second electrical connectors when the first and second electrical connectors are mated.

9. The assembly of claim 8, wherein the clasp includes a post which is received in an aperture formed in the strap to interlock the first and second electrical connectors.

10. The assembly of claim 8, wherein the first electrical connector is a female connector and the second electrical connector is a male connector.

11. The assembly of claim 8, wherein the first electrical connector is a male connector and the second electrical connector is a female connector.

12. The assembly of claim 8, wherein the door includes a latching tab extending from a lower surface and the second electrical connector includes a key extending from the outer shell, and wherein the latching tab engages the key when the first and second electrical connectors are in a mated condition.

13. The assembly of claim 8, wherein the first and second electrical connectors are injection molded from a plastic material.

14. The assembly of claim 8, wherein the integral flexible flaps of the first and second electrical connectors are injection molded from an elastomer material.